BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:- Additional Development works to Parks at Sandeep Unnikrishnan Road in Attur Ward no 03.

Est Cost: =200.00 Lakhs

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2 (P No.138, I.No.18.11 of PW, P&IWTD SR 2018-19)								
	Park	Sqm							
	Park Area1		1.0	105.00	8.00		840.00		
	Park Area2		1.0	60.00	13.00		780.00		
	Park Area3		1.0	45.00	19.00		855.00		
	Park Area4		1.0	103.00	8.50		875.50		
	Park Area5		1.0	410.00	9.00		3690.00		
	Park Area6		0.5	55.00	11.00		302.50		
				778.00					
	Basic rate	10.00					7343.00	10.60	77835.80
	Area Weightage 6%	0.60							
	Total	10.60							
2	Removal of **Unserviceable Soil** with Disposal KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300 5 complete as per specifications. MORTH Specification No. 301(Page No.144 Item No 19.20 of KPWD S.R 2018-19)								
	Removal of Debris	Cum							
	Big Lump		2	6.00	6.00	3.00	216.00		
	Other Lumps		10	3.00	5.00	2.00	300.00		
	Broken Concrete laying in Park 5 and 6		2	28.00	4.50	0.25	63.00		
							579.00	34.98	20253.42
	Rate Analysis								
	Basic Rate in Rs.	33.00							
	Add 6% Area Weightage	1.98							
	Total Rate in Rs.	34.98							
3	KSRB15-3.9 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	Plastering								
	Park Area5		1.0	420.00	2.65		1113.00		
	Park Area6		1.0	55.00	2.55		140.25		
	For Tree Planter Box								
	Big Size Trees		30	2.70	1.20		97.20		
	Medium Sized Trees		100	2.40	1.20		288.00		
		Sqm			Total Qnty		1638.45	269.24	441136.28
	Rate Analysis								
	Basic Rate in Rs.	254.00							
	Add 6% Area Weightage	15.24							
	Total Rate in Rs.	269.24							

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4	15.105 Providing Texturedpaint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles the surface is then cleaned with water and ensured that it is in line and level . The textured material is then mixed with 40-50% of clean water until and homogenous thick slurry is formed the slurry is formed the slurry is left for 5-10 min to react completly with ingredients. The texture finish prepared as above is then applied to the wall surface with suitable roller/ spray/ gun/putty blade trowl to get the desired finish. The finished surface shall applied with two coats of external paint of approved shade> The rate includes providing and removing Scaffolding all lead and lift aand all other incidential charges etc. Complete as per directions of engineer in charge of the Work.								
	Plastering								
	Park Area5		1.0	420.00	2.65		1113.00		
	Park Area6		1.0	55.00	2.55		140.25		
		Sqm			Total Qnty		1253.25	465.34	583187.36
	Rate Analysis								
	Basic Rate in Rs.	439.00							
	Add 6% Area Weightage	26.34							
	Total Rate in Rs.	465.34							
5	KSRRB M300-1. **Earth work excavation by manual** means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
		Cum							
	Drain De Silting								
	Park Area1		1.0	105.00	0.70	0.60	44.10		
	Park Area2		1.0	60.00	0.70	0.60	25.20		
	Park Area3		1.0	45.00	0.70	0.45	14.18		
	Park Area4		1.0	103.00	0.70	0.45	32.45		
	Park Area5		1.0	410.00	0.70	0.40	114.80		
	Park Area6		0.5	55.00	0.70	0.25	4.81		
	For Kerb Stones		2.0	778.00	2.00	0.20	622.40		
	Pathway								
	Park 1 to 6		2	780.00	2.00	0.20	624.00		
	For Shoulder Drains Park 1 to 6 (15m interval)								
	(778/15)= 52		52	12.00	0.60	0.40	149.76		
	For Cobble Stone Beside Road		1	800.00	2.50	0.20	400.00		
	For Tree Planter Box								
	Big Size Trees		30	2.70	0.60	0.40	19.44		
	Medium Sized Trees		100	2.40	0.60	0.40	57.60		
							2108.73	211.79	446604.24
	Basic rate	130.00							
	Loading and unloading with 5km lead= 57+2.0x1.28x5 = 69.80	69.80							
	Area Weightage 6%	11.99							
	Total	211.79							
6	KSRRB M200 -19.1 **Dismantelling of existing structures** like culvert, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T& P and scaffolding wherever necessary sorting the dismantelled material, disposal of unserviceable material and stacking the servicebale material, with all lifts complete as per specification Scrapping of stones from dismantelled stone masonry in cement mortor (KSRRB M200 19.1, It No.18.38. P No. 139,140)								
	For RCC Drain	CUM							
	Damaged / Weak Portion								
	Consider 15% of Total Length		778.00	*15%					
	Bottom Slab		1	116.7	0.2	1.5	35.01		
	Sides		2	116.7	0.45	1.2	126.04		
							161.05	844.18	135951.81

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	Basic Rate Rs.=	723.00							
	Add 6% A.W Rs. =	43.38							
	Sub Total =	766.38							
	8Km Lead, Loading and Unloading =(2*1.3*8)+57	77.80							
	Total Rate Rs. =	844.18							
7	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2,P No. 13/ Item No. 4.3/ PWD SR 2018-19								
	Bed Concrete	Cum							
	For Cobble Stone								
	Park 1 to 6		1	780.00	2.00	0.10	156.00		
	Pathway beside Road		1	800	2.5	0.1	200.00		
	For Tree Planter Box								
	Big Size Trees		30	2.70	0.60	0.10	4.86		
	Medium Sized Trees		100	2.40	0.60	0.10	14.40		
					Total Qnty		375.26	5408.12	2029451.11
	Basic rate	5102.00							
	Area Weightage 6%	306.12							
	Total	5408.12							
8	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12/I.No. 4.2 of CSR 2015-16)								
	Bed Concrete	Cum							
	RCC Drain Bottom		1	116.7	1.65	0.15	28.88		
	Coping Concrete For Drain		2	116.7	0.45	0.1	10.50		
	For Kerb Stones		2	778.00	0.2	0.1	31.12		
	For Tree Planter Box DPC								
	Big Size Trees		30	2.70	0.60	0.10	4.86		
	Medium Sized Trees		100	2.40	0.60	0.10	14.40		
					Total Qnty		89.77	5505.64	494220.66
	Basic rate	5194.00							
	Area Weightage 6%	311.64							
	Total	5505.64							
9	Providing and laying in position plain/Reinforced cement concrete M20 for sub-structure/Superstructure works, with cement @ 320 kgs,20mm & down size graded granite metal course aggregate at 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticizers @ 3 its confirming to IS 9103-2008, concrete layed in layers, well compacted and providing weep holes whemever neccesary. with neccesary scaffoldings, from work etc., including cost of labour, HOM curing etc., complete. (Page No.257. I No 34.17 of KPWD S.R 2018-2019)								
		Cum							
	For Shoulder Drains Park 1 to 6 (15m interval)								
	(778/15)= 52		52	12.00	0.60	0.15	56.16		
					Total Qnty		56.16	5277.74	296397.88

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	Rate Analysis								
	Basic Rate in Rs.			4,979.00					
	Add 6% Area Weightage			298.74					
	Total Rate in Rs.			5,277.74					
10	KSRB 5-14.1: Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lesser than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 ; as per IS 2572:2005 including cost of materials, labour charges,scaffolding ,curing complete as per specifications. KBS No.5.4 (Page No.27. l No 5.27.2 of KPWD S.R 2018-2019)								
	For Shoulder Drains Park 1 to 6 (15m interval)	Cum							
	(778/15)= 52*2		104	12.00	0.20		249.60		
	For Tree Planter Box								
	Big Size Trees		30	2.70	1.00		81.00		
	Medium Sized Trees		100	2.40	1.00		240.00		
					Total Qnty		570.60	1010.18	576408.71
	Rate Analysis								
	Basic Rate in Rs.			953.00					
	Add 6% Area Weightage			57.18					
	Total Rate in Rs.			1,010.18					
11	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	For Shoulder Drains Park 1 to 6 (15m interval)	Cum							
	(778/15)= 52		52	12.00	0.60		374.40		
					Total Qnty		374.40	2337.00	874972.80
	Rate Analysis								
	Data Rate			2,337.00					
12	KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications. (Page No.150. l No.19.97 of KPWD S.R 2018-2019)								
	For Shoulder Drains Park 1 to 6 (15m interval)	Quintal							
	(778/15)= 52		52			0.11	5.51		
					Total Qnty		5.51	7618.22	41991.63
	Rate Analysis								
	Basic Rate in Rs.			7,187.00					
	Add 6% Area Weightage			431.22					
	Total Rate in Rs.			7,618.22					
13	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant. groves in joints including cost of curing - minimum width of 900mm. (P.No 112, I.No.14.61 2 of PW,P&IWTD S.R 2018-19)								
		Sqm							
	For Tree Planter Box Top								
	Big Size Trees		30	2.70	0.30		24.30		
	Medium Sized Trees		100	2.40	0.30		72.00		
							96.30	2097.74	202012.36
	A.Basic rate	1979.00							
	B.Area Weightage 6%	118.74							
	Total	2097.74							

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14	Providing **full nosing for 20mm thick granite** slab using required machinery including cost and convey ance of all materials,labour for all items of work,HOM etc., complete as per specification. (P.111/1.14.55 PW,P&IWTD,BENGALURU CIRCLE-SR 2018 -19)								
	For Tree Planter Box Top								
	Big Size Trees	(30*2)	60	2.70			162.00		
	Medium Sized Trees	(100*2)	200	2.40			480.00		
	A.Basic rate	270.00					642.00	286.20	183740.40
	B.Area Weightage 6%	16.20							
	Total	286.20							
15	KSRB 5.2-2 : Providing and constructing **granite / trap / basalt size stone masonry** in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	Basement	Cum							
	RCC Drain Bottom		1	116.7	1.7	0.2	39.68		
	RCC Drain Sides		2	116.70	0.45	1.20	126.04		
	For Tree Planter Box								
	Big Size Trees		30	2.70	0.60	0.40	19.44		
	Medium Sized Trees		100	2.40	0.60	0.40	57.60		
					Total Qnty		242.75	4763.64	1156392.66
	Basic rate	4494.00							
	Area Weightage 6%	269.64							
	Total	4763.64							
16	Providing and Fixing pre cast covering **Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete As per Engineer incharge								
		Sqm							
	Damaged Portion								
	Consider 23% of Total Length		778.00	*23%					
	Top Slab		1	178.94	1.5		268.41		
							268.41	5,418.00	1454245.38
	Data Rate:	5418							
17	KSRB 14.6-1: Providing & laying **heavy duty cobble stones** 60mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19)								
	Parks	Sqm							
	Parks 1 to 6		1	780.00	2.00		1560.00		
	Pathway beside Road		1	800	2.5		2000.00		
							3560.00	1116.18	3973600.80
	Basic rate	1053.00							
	Area Weightage 6%	63.18							
	Total	1116.18							
	5.29(b) Providing and fixing pre cast solid cement concrete **kerb stones** made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 27/ Item No. 5.30/ PWD SR 2018-19								

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	Park	Nos							
	Park Area1		2	105			466.67		
	Park Area2		2	60			266.67		
	Park Area3		2	45			200.00		
	Park Area4		2	103			457.78		
	Park Area5		2	410			1822.22		
	Park Area6		2	55			244.44		
	Beside Road		1	40.00			40.00		
							3497.78		
							7772.84	477	3707644.44
18	Data Rate	477							
	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	Park	Nos							
	Park Area1		2	105		0.35	73.50		
	Park Area2		2	60		0.35	42.00		
19	Park Area3		2	45		0.35	31.50		
	Park Area4		2	103		0.35	72.10		
	Park Area5		2	410		0.35	287.00		
	Park Area6		2	55		0.35	38.50		
	Beside Road		1	840.00		0.35	294.00		
							838.60	84.80	71113.28
	Basic rate	80.00							
	Area Weightage 6%	4.80							
	Total	84.80							

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							Total Amount	1,67,67,161.02
							GST 12% ON Total A	20,12,059.32
							DPR 1 %	1,87,792.20
							PMC 1 %	1,87,792.20
							ADD Tender Premium 5%	8,38,358.05
							Miscellaneous and unforeseen charges	6,837.20
							Grand Total	2,00,00,000.00

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2018-19.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer | Assistant Executive Engineer | Executive Engineer

Technical Sanction
Accorded For B.S.2.0 Lakhs only
Head of A/C. P-3783
CER NO :...144..... Dt:17.11.202

JCE (NK)

SHRIJA CONSTRUCTION AND CONSULTANCY

Administrative Sanction for Rs. 200.00 lakhs
[Rupees Two Crore only]
is accorded under head P-3783
Development of Parks in W-01
03 Eph
Registered as CE No. 103
to conditions contained in
No.BBMP/EE/Wrk/AS/103/2021 | 29/03/21

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